

ENVIRONMENTAL PROTECTION AGENCY

REGION III

INTERIM CONSTRUCTION INSPECTION REPORT

Section I. General

1. Applicant Hamilton Township Municipal Authority
2. Project Number C-420916-01 Date Visited 7 March 1979
Date Prior Visit None
3. Status of Schedule: Date Construction Start 11 January 1979
Original Completion Date 3 July 1980
Revised Completion Date N/A
Scheduled percent this date 2.8%
Actual percent this date: By EPA Payments 0%
By Construction
Inplace 6.5%
4. This inspection performed by Edwin A. Kucerik and James A. Smith, U. S. Army, Corps of Engineers, Philadelphia District, Philadelphia Project Office, Telephone No. (215) 597-0456 or 0457
5. Consultant Arrowood, Inc.
6. Persons Contacted:

<u>Name</u>	<u>Title</u>	<u>Telephone</u>
<u>W. L. Arrowood</u>	<u>Project Engineer/Inspector</u>	<u>(717)263-8794</u>
<u>Dennis Black</u>	<u>Project Inspector</u>	<u>(717)264-9568</u>
<u>Harry Fix</u>	<u>Chairman, Hamilton Township Municipal Authority</u>	<u>(717)264-1431</u>
7. Brief Project Description:
Construct gravity pipelines, force mains, and five pumping stations to
service approximately 1500 EDU in the Hamilton Township area.

Contracts

<u>Contractor</u>	<u>Description of Work</u>	<u>Amt.</u>	<u>Date Start</u>	<u>% Complete</u>
GERL	Gravity and Force Lines	\$5,122,757	01/11/79	6.5%
Conowago	Pump Stations	\$844,848	01/11/79	0%

8. General Maintenance and Site Conditions Overall site conditions are
satisfactory. Traffic control is adequately maintained on highways and
clean-up is performed daily.

9. Plant or Unit Process Bypassing During Construction N/A

10. Project Sign Two erected at Field Office site.

11. Federal Wage Rates Posted Yes, Contractor's Bulletin Board (Gerl)

Section II. Administration/Management

1. Daily log of construction, who keeps-acceptability.

Resident Engineer and each Inspector keep a daily log, hard bound book.

Resident Engineer's log was up-to-date and acceptable.

2. Method of recording construction deficiencies and method of recording
correction thereof. (Attach copies showing complete sequences).

Deficiencies are generally recorded on the quantity sheets and inspectors
field books. Corrections were reported as being recorded in the field
books also.

3. Change Orders. How many - how estimated and approved prior to commencing work.

One change order has been approved by the Authority. Change orders are negotiated by the Consultant, recommended to the Authority by Mr. Arrowood and approved by the Authority. Format to be used by the contractor is part of the contract documents.

List three largest:

Contract	Description of Work	Initiated By	Amount	Date Started	Date Approved
GERL No. 1	Temporary Connection	Authority	\$1,500.	01/11/79	01/10/79

4. Number of EPA payment requests submitted & total amount (1) \$181,700

Number of payments received by applicant & total amount (1) \$181,700
(Prior Engineering)

5. Construction inspection

Name of Supervising Inspector Mr. Dennis Black

Name of Inspectors Lisa Hoover (Clerk), J. Heleman, K. Shives, T. Crouse, G. Diehl, K. Breighner, B. Robinson

Describe chain of command and efficiency of operation.

Inspectors report to the Resident Inspector, Mr. Black, who reports to Mr. Arrowood, President, Arrowood, Inc., who reports to the Authority.

6. Treatment plant operation during construction. New N/A Addition N/A
If addition or modification, obtain past and present operational records. Include copies of permit data or complete the below:

Permit No. N/A

Permit Parameters	Prior to Construction (Date _____)		During Construction (Date _____)	
	<u>Infl</u>	<u>Effl</u>	<u>Infl</u>	<u>Effl</u>

N/A

7. Operating Staff - Either existing or planned for facility. (Indicate certifications).

50%, Plant Operator
90%, Fully Staffed

N/A Maintenance will be provided by the
Authority in the future.

Section III. Quality of Construction

1. Test Requirements:	<u>Test Result</u>	<u>Spec. Req't</u>	<u>Final Resolution</u>
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Soil Compaction -- None performed to date on State or Township roads.
Hydro Hammers are allowed by the Engineer per pipe mfr's recommendations.

Concrete Cylinder -- Design mix approved. Cylinders will be taken on
pump stations.

Equipment -- Shop drawings are being reviewed.

Sewer Line Grades -- Branches and centerline of manholes are checked
by the Contractor. Cut sheets are submitted to the Inspector who checks
grades.

Other

Pipe Certifications are on file. Air tests of pipe in-place are performed
according to the attached schedule (Attachment No. 1).

2. Appearance of Construction

Concrete work None to Date.

Earth work Satisfactory.

Electrical work None to date.

Form and Frame work None witnessed at this time.

Masonry work No work performed to date.

Mechanical work No work performed to date.

Pipeline construction Trenching operations are being performed according to plans and specifications. Coffin boxes are used in deep trenches to shore excavations.

Paving and street repair Temporary cold patch is being utilized on State and Township Roads.

3. How is work approved prior to payment? By whom? (for unit price items) _____

Mr. Arrowood reported that the Resident Engineer makes his own payment estimate, compares this to Contractor's estimate, and finalizes this with Contractor. Resident Engineer and Inspectors measure quantities for unit price items on a daily basis.

4. How is received equipment inspected and approved prior to payment.

Mr. Arrowood reported that equipment and materials are checked by Inspectors prior to payment. No major items of equipment has been received to date. Materials are paid for only after installation has been accomplished with the exception of the pumps.

Section IV. Summary of Significant Construction or Management Deficiencies.

None noted.

Section V. Interferences to job (Strikes, equipment, deliveries, etc., and proposed resolution).

None to date.

Section VI. Permit Program

1. Was a Section 404 or Section 404/10 permit issued? Yes N/A No N/A
2. If yes, does construction appear to be in compliance with the plans and conditions of the permit? N/A
3. If no, is any work being performed or proposed in any waterway, wetlands, etc.? Yes _____ (give details) No X

Section VII. Brief abstract of the interim inspection.

1. The inspection was conducted at the Resident Engineer's field office. Corps of Engineers' representatives distributed information concerning change order background and format.
2. The construction is presently on schedule and no delays are anticipated. Quality of construction is satisfactory and meets contract requirements. No tests have been performed to date due to stage of present construction. Future field testing was discussed.
3. At the present time one change order has been finalized and is awaiting Farmers Home Administration's approval prior to submission.
4. The Grant payment schedule was discussed with Mr. Arrowood and no problems are anticipated.
5. Overall project management and inspection appeared satisfactory.
6. Environmental safeguards are being utilized. Measures will be taken to alleviate dust problems resulting from rock drilling along pipelines by utilizing wet drilling method.
7. The Contractor's labor practices are in accordance with the contract and steps are being taken to comply with the new equal opportunity hiring procedures. At the present time, two women are employed in construction trades on the contract.
8. Safety at the job site is satisfactory and "coffin boxes" are being utilized to shore deep trench excavations.
9. Procedures have been established to handle complaints from the public. A copy of the complaint form is included (Attachment No. 2). Mr. Arrowood stated that complaints will be resolved at the field level whenever possible.
10. The overall condition of the project at the time of this inspection is satisfactory.
11. Dates: SUO - 12/07/71
IRC - N/A
UC - 12/27/78